Claims

What is claimed is:

1. A blowby gas separation system for an internal combustion engine comprising:

a blowby gas transfer passage located externally of the engine and adapted to collect blowby gases from the engine;

condensing media in the transfer passage adapted to condense oil from the blowby gases; and

a collection unit in fluid communication with the transfer passage and adapted to receive the blowby gases from the transfer passage and separate condensed oil from the blowby gases.

- 2. The blowby gas separation system of Claim 1 including an oil recirculation line in fluid communication with the collection unit and adapted to return the separated condensed oil to the engine.
- 3. The blowby gas separation system of Claim 1 including a reservoir for storing the separated condensed oil.
- 4. The blowby gas separation system of Claim 1 in which the blowby gases transfer passage is disposed with respect to the collection unit such that condensed oil in the transfer tube will pass under gravity into the collection unit.
- 5. The blowby gas separation system of Claim 1 in which the condensing media comprises a helical coil extending along at least a portion of the transfer passage.

- 6. The blowby gas separation system of Claim 2 in which the condensing media comprises a helical coil extending along at least a portion of the transfer passage.
- 7. The blowby gas separation system of Claim 1 in which the condensing media comprises a wire mesh extending along at least a portion of the transfer passage.
- 8. The blowby gas separation system of Claim 1 in which the condensing media comprises a wire mesh extending along at least a portion of the transfer passage.
- 9. The blowby gas separation system of Claim 1 in which the collection unit includes condensing media.
- 10. The blowby gas separation system of Claim 1 further including a gas re-circulation line for re-circulating separated gases from the collection unit to an engine air intake system.
- 11. The blowby gases separation system of Claim 2 in which the oil re-circulation line includes a valve adapted to prevent blowby gases exiting the engine through the oil re-circulation line.
- 12. The blowby gases separation system of Claim 2 in which the collection unit comprises a housing having a top and a base, a mouth of the oil recirculation line being located adjacent a base of the housing, and wherein a mouth of the gas re-circulation line is located intermediate a top and base of the housing.

- 13. The blowby gases separation system of Claim 11 in which the collection unit comprises a housing having a top and a base, a mouth of the oil recirculation line being located adjacent a base of the housing, and wherein a mouth of the gas re-circulation line is located intermediate a top and base of the housing.
- 14. A method of separating oil from blowby gases produced by an internal combustion engine comprising the steps of:

transferring blowby gases from the engine into a blowby gas transfer passage located externally of the engine;

passing the blowby gases through condensing media in the transfer passage to condense oil from the blowby gases;

collecting the condensed oil and the blowby gases from the transfer passage in a collection unit; and

separating the condensed oil and the blowby gases in the collection unit.

- 15. The method of Claim 14 including the step of re-circulating the condensed oil to the engine.
- 16. The method of Claim 14 including the step of storing the separated condensed oil in a reservoir.
- 17. The method of Claim 14 including the step of re-circulating separated blowby gases from the collection unit to an engine air intake system.
- 18. The method of claim 14 including the steps of re-circulating the condensed oil to the engine and re-circulating separated blowby gases from the collection unit to an engine air intake system.

- 19. The method of Claim 14 including the steps of storing the separated condensed oil in a reservoir and re-circulating separated blowby gases from the collection unit to an engine air intake system.
- 20. A gas separation system for an internal combustion engine comprising:

a gas transfer passage located externally of the engine and adapted to collect gases from the engine;

means in the transfer passage for condensing oil from the gases; and a collection unit in fluid communication with the transfer passage and adapted to receive the gases from the transfer passage and separate condensed oil from the gases.